

USA-CERL TECHNICAL REPORT N-86/09 REVISED

June 1988

Pollution Abatement Alternative Technology Selection System



Construction Engineering Research Laboratory

The 'Discuss With Experts Environmental Problems' (DEEP) Knowledge-Based System: Description and User Guide

by
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The Discuss with Experts Environmental Problems (DEEP) program is a knowledge-based system that offers military installation environmental personnel an easy, informal way to share problems, ideas for solutions, and information on the latest proven pollution abatement technologies. Many environmental problems are specific to geographical location, installation size, climate, or other variables; DEEP enables personnel at widespread geographic locations and diverse levels within the military chain of command to identify common problems and focus on them. In addition, the system contains listings of experts, environmental personnel at each installation, and recommended training courses; call-in information services; and a catalog of installation-specific, unpublished documents that users can order for use as guides in writing their own assessments, contracts, permits, and programs.

This revision supersedes the report dated March 1986. It includes an updated list of topics available in the DEEP knowledge base. This revision also includes additional user commands and demonstrates their use in example sessions.

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This revision supersedes the report dated March 1986. It includes an updated list of topics available in the DEEP knowledge base. This revision also includes additional user commands and demonstrates their use in example sessions.

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FOREWORD

This work was performed for the Office of the Assistant Chief of Engineers (OACE) under RDT&E Project 4A762720A896, "Environmental Quality for Construction and Operation of Military Facilities"; Task T2, "Pollution Control Technology"; Work Unit 908, "Pollution Abatement Alternative Technology Selection System."

Additional funding was supplied by Headquarters, U.S. Air Force, Environmental Office, under Work Unit JE8. The Air Force Technical Monitor was MAJ Ray Solomon.

This research was performed by the Environmental (EN) Division, U.S. Army Construction Engineering Research Laboratory (USA-CERL). Dr. R.K. Jain is Chief of USA-CERL-EN. The Technical Editor was Gloria J. Wienke, USA-CERL Information Management Office.

COL Norman C. Hintz is Commander and Director of USA-CERL, and Dr. L.R. Shaffer is Technical Director.



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THE 'DISCUSS WITH EXPERTS ENVIRONMENTAL PROBLEMS' (DEEP) KNOWLEDGE-BASED SYSTEM: DESCRIPTION AND USER GUIDE

1 INTRODUCTION

Background

Army Regulation (AR) 200-1 and Air Force Regulation (AFR) 19-1 require the respective military installations to institute environmental protection programs directed towards all environmental media. Designing and implementing these programs is a process that goes far beyond constructing appropriate pollution abatement facilities. Treatment technologies are dynamic and their success depends on careful consideration of many variables. These variables range from the skill and knowledge of operations personnel at a particular installation to the current state-of-the-art limitations of the abatement process selected. The ability to provide effective environmental protection at a given military installation requires both knowledge of Air Force or Army activities/constraints and expert technical judgment by pollution abatement planners.

Several attempts have been made to provide data bases containing state-of-the-art information on alternative technological solutions to pollution problems and on military-unique environmental problems. One of these was the Army Pollution Abatement Program (APAP) data base, that the U.S. Army Corps of Engineers, Huntsville Division created by downloading from commercial bibliographic systems citations that seemed relevant to Army problems. In addition, the U.S. Army Construction Engineering Research Laboratory (USA-CERL) has done much work in developing "problems" and "solutions" data bases of various types in an attempt to address pieces of this puzzle. Several of these data bases have been developed as a part of the Pollution Abatement Alternative Technology Selection (PAATS) System, which provides information on innovative and alternative approaches to pollution abatement and environmental management.

Earlier data bases designed specifically for military users and their problems had the advantage of being tailored to specific needs. However, the cost of creating and updating these specially adapted data bases has been overwhelming. Cost mounts with the continual monitoring of technical literature; with the analysis, abstraction, and indexing of data; and with the data input and updates necessary to keep the system current. An ideal program would offer data bases relevant to Army and Air Force problems and policy, but without the high costs for monitoring and updating. With the

Army Regulation (AR) 200-1, Environmental Protection and Enhancement (Department of the Army, 15 June 1982); Air Force Regulation (AFR) 19-1, Pollution Abatement and Environmental Quality (Headquarters, U.S. Air Force, 9 January 1978).

²R. D. Webster, et al., Pollution Abatement Management System, TR N-42/ADA055565 (U.S. Army Construction Engineering Research Laboratory [USA-CERL], 1978); J. G. Bandy et al., Concept Definition of the Pest Management Component of the Pollution Abatement Management System, TR N-122/ADA109720 (USA-CERL, 1982); M. Messenger et al., The National Pollution Discharge Elimination System Permit Mangement System; Pilot System Description, TR N-133/ADA119787 (USA-CERL, 1982); R. D. Webster et al., Development of the Environmental Technical Information System, TR E-52/ADA009668 (USA-CERL, 1975).

proliferation of office automation and the increased computer literacy of the user group, the potential exists for reducing data development and updating expenses.

Objective

The objective of this effort was to create a knowledge-based communication medium for environmental personnel to access information on the latest pollution abatement technologies and environmental management strategies. The system was to allow for self-contained updating, systematic analysis of alternatives, and selection of optimal technologies.

This revision supersedes the report with the same title and number, dated March 1986. It includes an updated list of topics available in the DEEP knowledge base. This revision also includes additional user commands and demonstrates their use in example sessions.

Approach

Information was collected from environmental officers and other environmental personnel at Air Force and Army installations. Their service requests, program expectations, and time constraints were used to modify and add features to a prototype system. Data obtained from environmentalists and statistics compiled on available technological data from installations were incorporated into a knowledge-based system.

The resulting system, Discuss with Experts Environmental Problems (DEEP), provides (1) a vehicle for communication among environmental personnel, (2) a data base for user contributions and updates, and (3) a variety of information services that can be continuously expanded.

Mode of Technology Transfer

After field testing of DEEP by environmental personnel in the Air Force and the Army, the system will be fielded as part of the Environmental Technical Information System (ETIS).

2 STRUCTURE AND CONTENT

The DEEP Knowledge Base

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A knowledge base is an organized collection of information, stored on a computer, that focuses on a particular subject. Although the function of a knowledge base is as an information resource for focusing and refining any number of inquiries into a given topic, it is not a static collection of facts. A knowledge-based system such as DEEP is dynamic and constantly evolving; users actively expand the available store of information by posing and answering questions and making comments on specific topics. A knowledge-based system is a means for managing new ideas as well as a means for storing existing facts.

Knowledge-based systems such as DEEP, which allow user questions, answers, and comments can become self-updating through vigorous use. The fundamental requirement is a broad pool of expertise among the use.s. Such broad expertise exists among the personnel in Corps offices, military installations, and educational institutions. For example, an entomologist may be on the staff at an Army environmental office, while a hydrologist may be on the staff at an Air Force environmental office. Indications are that collective expertise covers a wide range with many years of experience in different specializations. This experience is invaluable to new people in similar positions at other offices. DEEP offers a quick and easy method of sharing this expertise. A user-active system with the input of experienced and trained environmental personnel assures currency with the latest technologies available for dealing with resources problems and management programs.

Additional features include a catalog of installation-specific unpublished documents, a rated list of environmental courses, a library of rated publications, call-in information services, and computerized information resources.

Knowledge Base Structure

The current structure of the DEEP knowledge base is shown below. The listing is meant only to indicate the broad areas that may be addressed in each section. It is important to emphasize that while this is the current structure, it is completely dynamic and user-driven and thus subject to constant change. The DEEP software supports creation of subtopics at any time by any user and of new topics by the director acting upon the users' suggestions.

	Topic	Description
1.	air	Air Pollution.
2.	asbestos	Problems and solutions.
3.	conserve	Conservation and wildlife.
4.	culture	CRIS and Cultural Resources (Archeologic and Historic).
5.	compliance	ECAMP, ERMA, and other compliance information.
6.	manage	Management of Environmental Programs.

7.	noise	ICUZ and other Noise Programs.
8.	resource	Resource Recovery.
9.	solid	Solid Waste.
10.	water	Water and Wastewater.
11.	catalog	Lists unpublished, installation-specific documents.
12.	airforce	Environmental personnel at Air Force installations.
13.	expert	Experts available for giving help.
14.	army	Environmental personnel at Army Installations.
15.	library	Ratings of courses, literature, and services.

Temporary assignments and position openings.

Comments/suggestions on topic areas or program use.

16.

listings

17. comment

3 USER INSTRUCTIONS

DEEP is available as an experimental profile of ETIS. ETIS can be accessed over WATS, TELENET, and commercial telephone lines using almost any kind of computer terminal (see Appendix A).

Accessing ETIS

After assembling a remote terminal, a modem, a connection to a telephone line, and acquiring a login and password from USA-CERL's Environmental Division, ETIS can be accessed by a remote terminal. Dial the system's number (217/333-5067, WATS 800/637-0958). If there is no answer, the entire system is down for maintenance. Upon hearing a steady tone, connect your terminal/modem to the ETIS system as indicated in the manufacturer's instructions. After logging in with the correct name and password, you will receive system messages. Type "etis" at the prompt to start the system. DEEP is one of the systems under Miscellaneous in the main ETIS menu.

General ETIS Commands

Ctrl-q

These commands can be used throughout ETIS. The items in the left column show how the command is referred to.

<pre><cr> or RETURN</cr></pre>	When instructed to do so, depress the return key to initiate the next action.
Ctrl-d	Simultaneously press the control key and the letter d, to exit immediately to the ETIS login.
Ctrl-h	Use this to correct an input errorif the return key has not been pressed. It backs up the cursor one space at a time, erasing each character. This can be done as many times as necessary. Every symbol that has been backspaced over has been removed from the terminal memory. Therefore, if the first digit of a six-digit number has been mistyped, you must depress Ctrl-h six times and then retype all six digits. The corrected symbols will be overprinted on the paper or screen.
Del or Ctrl-s	To stop a long listing, depress the key marked Del (delete) or type a Ctrl-s.

A path can be set up in your directory that will take you directly into DEEP. After logging in with the correct name and password, all you have to do is type "deep" at the ETIS prompt to enter DEEP without going through the ETIS menu.

If ctrl-s is used, a ctrl-q is necessary to start the listing again.

The DEEP Software

After the DEEP system has been started, the following menu appears and the appropriate command is typed to accomplish the option desired:

DEEP Command (RETURN to see list):

Type: To:

talk Read and write comments on environmental topics.

new Look at new comments.

pick Limit the list of topics to read with new command.

help Instructions on use. bye Leave the system.

The complete knowledge bases discussed in Chapter 2 are accessed by choosing "talk" from the menu (see Appendix B). In "talk", notes and responses are entered by using an editor. The DEEP editor is a simple data input routine that accepts one line of input at a time and is ended by putting a period on a line by itself (see Appendix C). DEEP users who are familiar with one of the UNIX editors can specify their preference for those routines when requesting a login to ETIS.

To see only those parts of the knowledge bases that are new since the last access, start the system using the "new" command (see Appendix D) after setting up "pick." If only certain knowledge bases are used routinely, such as hazardous waste and air, the "pick" command is used to select these two knowledge bases. Then every time the "new" command is entered, only those two knowledge bases will be checked for new traffic. The complete listing of knowledge bases can still be accessed by using the "talk" command. The number and combination of knowledge bases selected in "pick" can be altered at any time.

The UNIX "notes" software has been used as a basis for the DEEP system. Complete documentation of the features of this software can be found in the Notesfile Reference Manual.³

Commands for reading and writing comments while using the "talk" option:

Use: To:

space Show the next page of the note/response.

<CR> Go to the next note ignoring any response(s) to the

current note.

³Raymond B. Essick and Rob Kolstad, Notesfile Reference Manual, TR #U1UCDCS-R-82-1081 (University of Illinois, September 8, 1982).

-	Go back one screen. If used at the first page of a base note, go to the previous note. If used at the first page of a response, go to the previous response (or the base note from the first response).
w	If typed while looking at a screen of topics, enters a new topic. If typed while looking at note or a note response, enters a response.
i	Return to the list of topics for the major title presently entered.
q	Leave the current topic, go back to the main menu.
Ctrl-d	Return to computer command level, ignoring any further notesfiles in DEEP. No "new" informtion is updated.

Commands for reading comments while using the "new" option:

Use:	To:
j	Jump to the next unread note/response.
J	Jump to the next unread note, ignoring any further responses in the current note string.

4 SUMMARY

This report describes a knowledge-based communication system for use by environmental personnel to access information on the latest technologies related to their field. The DEEP knowledge base has been designed to tap the expertise in the Corps of Engineers District and Division offices, the environmental offices at military installations, and various departments at educational institutions by providing an efficient mechanism for enhancing communication among them.

APPENDIX A:

DIALING INTO THE ETIS SYSTEM

To call the computer that DEEP and ETIS run on:

- 1. Turn on power switches to terminal and modem.
- 2. Type AT (in capital letters) on your terminal. This command tells the Hayes modem to pay ATtention. The response OK should appear on the screen.
 - 3. Type ATDT followed by the appropriate phone number.

The method of access is shown below. Commands that the user types are in bold print.

AT
OK
ATDT9,18006370958
CONNECT
<CR>
U of I Computing Services Office VAX 11/780 (uiucuxc)
4.2 BSD Unix /dev/ttyxx

login: apache

Password: GeroniMO

APPENDIX B:

EXAMPLE SESSION

Following is an example session from the DEEP system that portrays the type of interaction the system is designed to support. The horizontal lines set off the contents of a single screen. User inputs are in bold print.

ASK AN EXPERT - BE AN EXPERT

DEEP (Discuss with Experts Environmental Problems) provides easy, informal communication among environmental personnel to identify similar problems, propose solutions, and relay latest proven technologies. The experience and expertise of users builds and updates the data bank.

Creators and users of alternative and innovative technologies are easily accessible because their names and telephone numbers are provided by DEEP plus a description of the environmental staff of each installation.

In addition, copies from a list of unpublished, installation-specific documents can be ordered for use as patterns. Training courses, special services, and library materials are described and rated by users.

Questions about the use of the system should be directed to Dr. Diane Mann at comm 800-USA-CERL.

DEEP Command (RETURN to see list): <cr>

Type:

talk

Read and write comments on environmental topics.

Look at new comments.

pick

Limit the list of topics to read with the 'new' command.

Instructions on use.

DEEP Command (RETURN to see list): talk <cr>>

Title: Description: Air Pollution. asbestos Problems and solutions. Conserve Conservation and wildlife. CRIS and Cultural Resources (Archeologic/Hist CRIS and Cultural Resources) Compliance ECAMP, ERMA, and other compliance informated Management of Environmental Programs. ICUZ and other Noise Programs. Resource Recovery. Solid Solid Waste. Water and Wastewater. Lists unpublished, installation-specific document and programs are informental personnel at Air Force installating expert Experts available for giving help. Army Environmental personnel at Army Installations. But army Environmental personnel at Army Installations. Comment Comments/suggestions on topic areas or programs. Type 'quit' to leave menu. Enter title: 2 <cr></cr>				wildlife. Resources (Archeologic/Historic). Ind other compliance information. Invironmental Programs. It is Programs. It is ater. Installation-specific documents. It is connel at Air Force installations. It is onnel at Army Installations. It iterature and services. Iterature and position openings.
6/16 2 Info. n		1 DEMOLITION IN 2 Info. need **** End of Notes		11:19 am Jan 14, 1988 Anonymous 2 afornl?@osiris.CSO.UIUC.ED
(type)	2 <cr></cr>			
Read	note > 2			
Note aforn		paats.asbestos Info. need (at osiris.CSO.UIU)	C.EDU)	2 responses 9:13 am Jun 16, 1986
		equirements for asbe in or nearby Wis.	estos disposal a	nd available disposal sites in upper
(press	the space bar	once)		

Note 2 paats.asbestos Response 1 of 2 Anonymous The DRMO (used to be Property Disposal Office) is now responsible for contracting for waste asbestos disposal. Fill out a DD 1348 and send paperwork to closest DRMO. Hal Balbach - CERL (press the space bar once.) Note 2 paats.asbestos dmann Response 2 of 2 11:59 am Sep 8, 1986 (at osiris.CSO.UIUC.EDU) Nearest -- is probably Ohio. (type) q Title: Description: 1. air Air Pollution. Problems and solutions. 2. asbestos Conservation and wildlife. 3. conserve CRIS and Cultural Resources (Archeologic/Historical). 4. culture ECAMP, ERMA, and other compliance information. 5. compliance 6. manage Management of Environmental Programs. 7. noise ICUZ and other Noise Programs. Resource Recovery. 8. resource 9., solid Solid waste. 10. water Water and Wastewater. 11. catalog Lists unpublished, installation-specific documents. 12. airforce Environmental personnel at Air Force installations. 13. expert Experts available for giving help. 14. army Environmental personnel at Army Installations. 15. library Ratings of courses, literature and services.

Type 'quit' to leave menu.

Enter title: 6 < cr>

Temporary assignments and position openings.

16. listings

paats.manage

11/12/85 8/18/86 8/31/87

9/16

1 ENERGY CONTACTS

2 WASTE MANAGEMENT USING CATTAILS

3 FORT BLISS ONLINE

4 Chloro fluoro carbons

9:21 am Nov 19, 1987 2fmmcoy@osiris 1dmann@osiris Anonymous fdevens

**** End of Notes ****

Read note > 2 < cr>

Note 2

PARAGORAN PARAGORAN PROPERTY OF THE PARAGORAN PARAGORAN

paats.manage

dmann WA

WASTE MANAGEMENT USING CATTAILS

1 response

7:45 am Aug 18, 1986

CATTAILS CURATIVE POWERS

Cattails remove iron and other metals from the water and neutralize acid. Because of these curative powers, the lowly cattail has become a favored plant of environmentalists and coal operators working to curb the toxic damage of acid drainage from mines.

The method is still experimental, but about 40 cattail marshes have been started in the last three years. Officials estimate that 100 will be planted this year, stretching from Pennsylvania to Alabama. Others are being established in Montana and Colorado.

According to estimates, the mining industry is spending \$1 million a day to treat acid mine drainage. Other than wetlands, no other technology is available that is cheap, low-maintenance and applicable. Acid drainage is now being treated with caustic soda or limestone, which neutralizes the discharge. A marsh can be built from scratch for about \$20,000, depending on the size.

A 90% success rate for removing iron and a 70% success rate for lowering manganese has been reported. Wetlands can also be used to treat industrial wastes and leaching from sanitary landfills.

<cr> (Because <cr> return is hit instead of space bar, the next note is brought up and the response to note 2 is skipped over)

Note 3 Anonymous paats.manage

FORT BLISS ONLINE

1987

1:57 pm Aug 31,

Fort Bliss finally is online!!! All the people listed on the installation "roster" are available for discussion. These include Ralph Nickolas for asbestos, hazardous waste, etc.; Glen DeGarmo for historic resources; and Kevin VonFinger/Brett Russel for ecological/training area management topics. Hope we can participate in some good discussions. Give us a call.

q

Topic menu appears again.

Enter title: quit <cr>>

Main menu appears.

bye <cr>

Session ended.

APPENDIX C:

EXAMPLE SESSION FOR WRITING

Following is an example session from the DEEP system that demonstrates how to write in DEEP at the (1) response or (2) note level. The horizontal lines set off the contents of a single screen. User inputs are in bold print.

(1) To write at the response level:

ASK AN EXPERT - BE AN EXPERT

DEEP (Discuss with Experts Environmental Problems) provides easy, informal communication among environmental personnel to identify similar problems, propose solutions, and relay latest proven technologies. The experience and expertise of users builds and updates the data bank.

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Questions about the use of the system should be directed to Dr. Diane Mann at comm 800-USA-CERL.

DEEP Command (RETURN to see list): <cr>

Type:	To:
talk	Read and write comments on environmental topics.
new	Look at new comments.
pick	Limit the list of topics to read with the 'new' command.
help	Instructions on use.
DEEP Comman	d (RETURN to see list): talk <cr></cr>

	Title:	Description:			
6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.	culture compliance manage noise resource solid water catalog airforce	ogic/Historins. documentinstallations. vices. penings. per program	on. ts. ns.		
paats. 1987 8/19/8	85	1*CAR EMISSIONS INSPECTION	3Anonyn	m Nov	19,
4/27/8 9/30	87	2 REDUCTION IN AIRBORNE LEAD 3 CHANGE IN PARTICULATE STANDARD			
		**** End of Notes ****			
(type)	2 <cr></cr>				
Read	note > 2				

Note 2 dmann paats.air REDUCTION IN AIRBORNE LEAD

8:20 am Apr 27, 1987

Levels of lead in the atmosphere declined 32% between 1984 and 1985 and have dropped 79% since 1976, according to the latest annual survey of air quality trends by the Environmental Protection Agency. The sharp drop in ambient lead levels is due to an 86% reduction in lead emissions since 1976, a direct result of the switch to unleaded gasoline and reduction of lead in leaded gasoline for automobiles, EPA said. Motor vehicles still contribute 73% of the lead air emissions.

(type)

(Typing w while reading a note starts the process for writing a response to that note. After the response is typed, the user goes to a blank line and types a period to enter the response into the bulletin board)

Edit Response Text:

Enter Message. When done enter a period (.) on a new line.

This is only a test.

(type)

Do you wish this response to be anonymous? (y/n): (type) y Do you REALLY wish this response to be anonymous? (y/n): (type) y

(Now you will be shown how the message appears.)

Note 2

paats.air

Anonymous

Response 4 of 4

9:26 am Nov 19, 1987

9:28 am Nov 19,

This is only a test.

(type) i

(Now you can see the change in the number of responses.)

paats.air

1987

8/19/85

4/27/87 9/30

1*CAR EMISSIONS INSPECTION

2 REDUCTION IN AIRBORNE LEAD 3 CHANGE IN PARTICULATE STANDARD Anonymous

3Anonymous 1dmann

**** End of Notes ****

(type) q

(Now you will receive the Title menu.)

(2) To write at the note level:

	Title:	Description:
1.	air	Air Pollution.
2.	asbestos	Problems and solutions.
3.	conserve	Conservation and wildlife.
4.	culture	CRIS and Cultural Resources (Archeologic and Historic).
5.	compliance	ECAMP, ERMA, and other compliance information.
6.	manage	Management of Environmental Programs.
7.	noise	ICUZ and other Noise Programs.
8.	resource	Resource Recovery.
9.	solid	Solid Waste.
10.	water	Water and Wastewater.
11.	catalog	Lists unpublished, installation-specific documents.
12.	airforce	Environmental personnel at Air Force installations.
13.	expert	Experts available for giving help.
14.	army	Environmental personnel at Army Installations.
15.	library	Ratings of courses, literature, and services.
16.	listings	Temporary assignments and position openings.
17.	comment	Comments/suggestions on topic areas or program use.

Type 'quit' to leave menu.

Enter title: 1 <cr>>

paats.air 8/19/85 4/27/87 9/30	1*CAR EMISSIONS INSPECTION 2 REDUCTION IN AIRBORNE LEAD 3 CHANGE IN PARTICULATE STANDARD	9:33 am Nov 19, 1987 3Anonymous 1dmann 1Anonymous

**** End of Notes ****

(Type:) w <cr>

(Typing w while viewing the Note-List Menu begins the process for writing a note. After the note is typed, the user goes to a blank line and types a period to enter the note into the bulletin board.)

Edit Note Text: Enter Message. When done enter a period (.) on a new line.						
This is a t	est.					
(type).						
	sh this note to be anonymous? (y/n): (EALLY wish this note to be anonymous					
N	ote Title: (type) TEST					
(Now you	(Now you will be shown how the message appears.)					
Note 4 anonymou	paats.air s TEST 9:	39 am Nov 19, 1987				
This is a t	est					
(type) i						
(Now you	will see the new note [number 4] in the	e list.)				
paats.air 8/19/85 4/27/87 9/30 11/19						
	**** End of Notes ****					
Enter title	e: q <er></er>					

1.	air	Air Pollution.
2.	asbestos	Problems and solutions.
3.	conserve	Conservation and wildlife.
4.	culture	CRIS and Cultural Resources (Archeologic and Historic).
5.	compliance	ECAMP, ERMA, and other compliance information.
6.	-	Management of Environmental Programs.
7.	noise	ICUZ and other Noise Programs.
8.	resource	Resource Recovery.
9.	solid	Solid Waste.
10.	water	Water and Wastewater.
11.	catalog	Lists unpublished, installation-specific documents.
12.	airforce	Environmental personnel at Air Force installations.
1 3.	expert	Experts available for giving help.
14.	army	Environmental personnel at Army Installations.
15.	library	Ratings of courses, literature, and services.
16.	listings	Temporary assignments and position openings.
17.	comment	
Туре	'guit' to leave m	
Type Enter	'quit' to leave m	enu.
Type ———— Enter	'quit' to leave m	enu.
Type ———— Enter	'quit' to leave motitle: quit <cr< td=""><td>URN to see list): To:</td></cr<>	URN to see list): To:
Type ———— Enter	'quit' to leave me title: quit <cr> command (RET</cr>	enu. URN to see list):
Type ———— Enter	'quit' to leave months title: quit <cr> command (RET) Type: talk new</cr>	To: Read and write comments on environmental topics. Look at new comments.
Type ———— Enter	'quit' to leave months title: quit <cr> command (RET' Type: talk new pick</cr>	To: Read and write comments on environmental topics. Look at new comments. Limit the list of topics to read with the 'new' command.
Type ———— Enter	'quit' to leave months title: quit <cr> command (RET) Type: talk new</cr>	To: Read and write comments on environmental topics. Look at new comments.

APPENDIX C:

EXAMPLE SESSION FOR PICK AND NEW

PICK and NEW, two of the four options listed in the main menu, are important time-savers for the regular user. Following is an example session from the DEEP system that demonstrates how to use PICK and NEW in DEEP. The horizontal lines set off the contents of a single screen. User inputs are in bold print.

ASK AN EXPERT - BE AN EXPERT

DEEP (Discuss with Experts Environmental Problems) provides easy, informal communication among environmental personnel to identify similar problems, propose solutions, and relay latest proven technologies. The experience and expertise of users builds and updates the data bank.

Creators and users of alternative and innovative technologies are easily accessible because their names and telephone numbers are provided by DEEP plus a description of the environmental staff of each installation.

In addition, copies from a list of unpublished, installation-specific documents can be ordered for use as patterns. Training courses, special services, and library materials are described and rated by users.

Questions about the use of the system should be directed to Dr. Diane Mann at comm 800-USA-CERL.

DEEP Command (RETURN to see list): <cr>>

Type:	То:
talk	Read and write comments on environmental topics.
new	Look at new comments.
pick	Limit the list of topics to read with the 'new' command.
help	Instructions on use.
bye	Leave the system.

DEEP Command (RETURN to see list): pick <cr>

air New file. Add it? y asbestos File exists. Keep it? y conserve New file. Add it? y culture New file. Add it? y airforce File exists. Keep it? y manage File exists. Keep it? y noise File exists. Keep it? y resource New file. Add it? y solid New file. Add it? y water New file. Add it? y compliance New file. Add it? y catalog New file. Add it? y expert File exists. Keep it? y army New file. Add it? y library New file. Add it? y listings New file. Add it? y comment New file. Add it? y

DEEP Command (RETURN to see list): new <er>

edeparate restraction (exercises) concepts (respects) (exercises) (exercises)

(If no new responses or notes have been added since the user last used the bulletin board, the file titles will be going through very rapidly) paats.******* (The *s represent the titles that will be flashed very quickly; these titles may include: paats.asbestos paats.conserve paats.resource paats.solid paats.water paats.catalog etc. paats.expert (At the end you will again receive the command prompt) DEEP Command (RETURN to see list): bye <cr> (User types bye and completes a check of the bulletin board in less than ten seconds if there are no new entries since the last use of the bulletin board.) Session ended. (The following example illustrates the use of NEW, from the main menu, if a new note has been added since the user last used the bulletin board. Titles will quickly flash by on the screen until the title of the section in which the new note exists is reached.) Note 1 paats.airforce dmann **ECAMP** Revision Revision of the ECAMP manual updating sections to 30 November 1987 is being printed and will soon be distributed. A new section - Section X - has been added entitled Natural and Historic Resources Management. (type) q paats.******* (The *s represent the titles that are flashed quickly.) DEEP Command (RETURN to see list): bye <cr>

(The following example illustrates the use of NEW if a new response has been added since the user last used the bulletin board. Titles will flash by quickly on the screen until the title of the section in which the note with the new response exists is reached. When the note appears on the screen, the user must strike the space bar until new response appears on the screen. If the new response is the second response, the user needs to strike the space bar twice; once to move from the note to response 1 and once to move from response 1 to the new response.)

Note 4 afguest

paats.water Aquifer cleanup

Question: Does a methodology exist which determines the most cost effective location and number of plumbing wells when restoring an aquifer by pumping and treating the ground water?

(Now press the space bar once)

Note 4 afguest

area estados comentadas tentales estados populares

Secretary Secretary

100 C

paats.water Response 1 of 4

3:39 pm Feb 12, 1987

Question: Does a methodology exist which determines the most cost effective pumping scheme, that is, what should be the pumping rates, should the rates vary with different wells, should pumping be intermittent?

(Now press the space bar again)

Note 4

paats.water

afguest

Response 2 of 4

3:48 pm Feb 12, 1987

Question: Will the concentration of a contaminant in an aquifer increase by desorption if pumping is stopped, and could intermittent pumping allow one to pump when the concentration of the contaminant is high? AFGUEST for last 3 questions is

Lt. Mike Elliott, HQ. AFFSC/RDVW, Tyndall, AFB FL. 32403 Phone number (904) 283-4628 Autovon 970-4628

DEEP Command (RETURN to see list): bye <cr>

End of Session.

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AMMRC 02172 ATTN: DRXMR-WE ATTN: DRXMR-AF

USA AMCCOM 61299 ATTN: AMSMC-RI ATTN: AMSMC-IS

AMC - Dir., Inst., & Serve ATTN: DEH (23)

FORSCOM
FORSCOM Engr, ATTN: Spt. Det.
ATTN: DEH (28)

HSC
Ft. Sam Houston AMC 78234
ATTN: HSLO-F
Fitzsimons AMC 80045
ATTN: HSHG-DEH
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443 ABG/DE Altus AFB, OK 73923-5436

43 CSG/DEEV Anderson AFB APO 96334-5000

HQAFSC/DEV Andrews AFB, MD 20334-5000

1776 ABW/DEEV Andrews AFB, MD 20331-5000

AEDC/DEV Arnold AFB, TN 37389 56 CSS/DEN Avon Park AFR, FL 33225-5000

Environmental Office Barksdale AFB, LA 71110-5000

9 CSG/DEEV Reale AFB, CA 95903-5000

67 CSG/DEEV Bergstrom AFB, TX 78743

343 CSG/DEEV Bielson AFB, AK 99702

97 CSG/DEEV Blytheville AFB, AR 72317-5000

6570 ABG/DE Brooks AFB, TX 78235-5000

27 CSG/DEEV Cannon AFB, NM 88103

7 CSG/DEEV Carswell AFB, TX 76127-5000

93 BMW/CVE Castle AFB, CA 95342-5000

437 ABG/DE Charleston AFB, SC 29404-5045

3345 ABG/DE Chanute AFB, IL 61868-5046

14 ABG/DE Columbus AFB, MS 39701-5000

1010 CES/DEEV Cheyenne Mountain AFS, CO 80912-5605

836 CSG/DEEV Davis-Monthan AFB, AZ 85707-5000

94 CSG/DEEV Dobbins AFB, GA 30069-5000

436 ABG/DE Dover AFB, DE 19902-5516

96 CSG/DEEV Dyess AFB, TX 76127-5000

AFFTC/DEV Edwards AFB, CA 93523

44 CSG/DEEV Ellsworth AFB, SD 57706-5000

HQ AAC/DEPV Elmendorf AFB, AK 99506-5001

21 CSG/DEEV Elmendorf AFB, AK 99506-5000

11 TCG/LGD Elmendorf AFB, AK 99506

32 CSG/DEEV Fairchild AFB, WA 99011-5000

931 CSG/DEV George AFB, CA 92394-5000

3480 CES/DE Goodfellow AFB, TX 76908-5000

321 CSG/DEEV Grand Forks AFB, WA 58205-5000

416 CSG/DEEV Griffiss AFB, NY 13441-5000

305 CSG/DEEV Grissim AFB, IN 46971-5000 3245 ABG/DEEV Hanseom AFB, MA 01731-5000

ESD/DEP Hanscom AFB, MA 01731

2849 ABG/DEVW Hill AFB, UT 84056

31 CSG/DEEV Homestead AFB, FL 33039-5000

834 CSG/DE Hurlburt Field, FL 32544-5000

3380 CES/DE Keesler AFB, MS 39534-5000

SA ALC/EM Kelly AFB, TX 78241

1606 ABW/DEEV Kirkland AFB, NM 87117-5000

3700 ABG/DE Lackland AFB, TX 78236-5000

HQ SAC/DEPV Langley AFB, VA 23665-5001

47 ABG/DE Laughlin AFB, TX 78843-5000

314 CSG/DE Little Rock AFB, AR 72099-5000

42 CSG/DEEV Loring AFB, ME 04751-5000

Los Angeles AFB, CA 90009

3415 ABG/DE Lowy AFB, CO 80230-5000

Environmental Office Luke AFB, CA 85309-5000

56 CSG/DEEV Macdill AFB, FL 33608

341 CSG/DEEV Malstrom AFB, MT 59402-5000

22 CSG/DEEV March AFB, CA 82518-5000

323 CES/DEEV Mather AFB, CA 95655-5000

HQ AU/DEEV Maxweil AFB, AL 36112-5001

62 ABG/DEEV McChord AFB, WA 98438-5436

SM ALC/EM McClellen AFB, CA 95652-5990

384 CSG/DEEV McConnell AFB, KS 67221-5000

438 ABG/DE McGuire AFB, NJ 08641

91 CSG/DEEV Minot AFB, ND 58705-5000

347 CSG/DEEV Moody AFB, GA 31699-5000

366 CSG/DEEV Mt. Home AFB, ID 83648-5000

354 CSG/DEEV Myrtle Beach AFB, SC 29579-5000 554 DESS/DESEP Nellis AFB, NV 89191-5000

2803 ABG/DE Newark AFB, OH 40357

63 ABG/DEEV Norton AFB, CA 92409-5965

HQ SAC/DEV Offut AFB, NE 68113-5001

55 CSG/DEEV Offutt AFB, NE 68113-5000

509 CSG/DEEV Pease AFB, NH 03803-5000

AFSPACECOM/DEPD Peterson AFB, CO 80914-5001

3SSW/XREE Peterson AFB, CO 80914-5000

1003 CES/DEEV Peterson AFB, CO 80914-5000

HQ ATC/DEE Randoph AFB, TX 78150-5001

12 ABG/DE Randoph AFB, TX 78150-5001

64 ABG/DE Reese AFB, TX 79489

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HQ AFRES/DEV Robins AFB, MD 20334-5000

HQ MAC/DEEV Scott AFB, IL 62225-5001

4 CSG/DEEV Seymour Johnson AFB, NC 27531-5005

363 CSG/DEEV Shaw AFB, SC 29152-5000

3750 ABG/DE Sheppard AFB, TX 76311

325 CSG/DEEV Tyndail AFB, FL 32403-5000

HQ USAFA/DE USAF Academy, CO 80840-5841 71 ABG/DE and NW-DOM Vance AFB, OK 73705-5000

1 STRAD/ET Vandenberg AFB, CA 93437-5000

439 ABG/DE Westover AFB, MA 01022-5000

351 CSG/DEEV Whiteman AFB, MO 65305-5000

82 ABG/DEEV Williams AFB, AZ 85240-5045

913 TAG/AFRES Willowgrove AFB, PA 19090

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AFIT/DEM Wright-Patterson AFB, OH 45433

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379 CSG/DEEV Wurtsmith AFB, MI 48753-5000

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